

Application No.: 10/089,532Docket No.: H0681.0007REMARKS

Claims 20 - 37 and 39 are in the case. Claim 38 was canceled without prejudice. Claims 23 to 37 are allowed. Reconsideration of the subject application in view of the following remarks is hereby respectfully requested.

Claims 20-22 and 39 were rejected under 35 U.S.C. § 103(a) as being unpatentable over U.S. Patent 5,001,493 to *Patin et al.* for reasons set forth on pages 2 and 3 of the Office action. This rejection is respectfully traversed.

The claimed invention is directed to a dual-band microstrip antenna comprising a ground member and a patch structure. The patch structure has a shape substantially corresponding to the patterns of current flow detected in the conduction surfaces to carry non-negligible current. The antenna of the claimed invention can be formed with a reduced amount of conductive material that is required to form a conventional antenna element.

Applicants respectfully submit that *Patin et al.* does not disclose shaping the conducting surfaces of the patch structure to substantially correspond to the patterns of current flow detected in the conduction surfaces. Nor does *Patin et al.* discuss about patterns of current flow in the conduction surfaces or otherwise motivates one skilled in the art to arrive at the claimed invention.

In fact, the lengths of edges 18, 20 and 24 in *Patin et al.* are critical because each length is associated with a particular wavelength. Accordingly, *Patin et al.* teaches away from shaping the patch structure and/or the non-interacting edges thereof as recited in the claimed invention. Therefore, the claimed invention is not obvious over *Patin et al.* Accordingly, applicants respectfully request that the subject rejection be withdrawn.

No fee is believe to be due for this Amendment. Should any fee be required, please charge such fee to Deposit Account No. 50-2215.

Respectfully submitted,

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